



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 92 40 30

Classification of the application (IPC):
G09F 9/30, G06F 1/16, H04M 1/02

Technical fields searched (IPC):
H04M, G06F, G09F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	US 2014211399 A1 (O'BRIEN PAUL M [US]) 31 July 2014 (2014-07-31) * paragraph [0020] - paragraph [0026] * * figure 2 *	1-13
Y	WO 2018153165 A1 (VIVO MOBILE COMMUNICATION CO LTD [CN]) 30 August 2018 (2018-08-30) * Late filed family document US2020/253063 A1 has been used as translation of this Chinese document into one of the official languages of the EPO. * & US 2020253063 A1 (JIANG LIPING [CN]) 06 August 2020 (2020-08-06) * paragraph [0021] * * paragraph [0044] * * figures 1,4-6 *	1-13
A	EP 2919226 A1 (UNIFIED INNOVATIVE TECHNOLOGY LLC [US]) 16 September 2015 (2015-09-16) * paragraph [0025] * * paragraph [0047] * * paragraph [0056] - paragraph [0058] * * figures 5(a), 5(b) *	1-13
A	CN 108259649 A (XIAN ZTE NEW SOFTWARE CO LTD) 06 July 2018 (2018-07-06) * Late filed family document US2021/044683 A1 has been used as translation of this Chinese document into one of the official languages of the EPO. * & US 2021044683 A1 (HE HAIBO [CN] ET AL) 11 February 2021 (2021-02-11) * paragraph [0135] - paragraph [0148] * * figures 10,15,16 *	1, 2, 5, 7, 8, 13

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 20 October 2022	Examiner Banerjea, Robin
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CATEGORY OF CITED DOCUMENTS

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A	US 2018077808 A1 (SEO TAE AN [KR] ET AL) 15 March 2018 (2018-03-15) * paragraph [0065] - paragraph [0068] * * figure 3 *	4
A	KR 101945985 B1 (LG DISPLAY CO LTD [KR]) 08 February 2019 (2019-02-08) * Late filed family document US2020/008308 A1 has been used as translation of this Korean document into one of the official languages of the EPO. * & US 2020008308 A1 (SHIN MI-NA [KR] ET AL) 02 January 2020 (2020-01-02) * paragraph [0132] - paragraph [0186] * * paragraph [0209] - paragraph [0235] * * figures 7A-8B,11A-13,15A,16,21,22,24,26 *	6, 9
A	US 2019029131 A1 (HAN JIHOON [KR] ET AL) 24 January 2019 (2019-01-24) * paragraph [0065] - paragraph [0069] * * figure 6 *	12
E	EP 3702880 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 02 September 2020 (2020-09-02) * the whole document *	1-13
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The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 20 October 2022	Examiner Banerjea, Robin
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